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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/768,169	02/02/2004	Alessandro Trequattrini	1008788-000057	5775
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		LUONG, PETER		
ALEXANDRIA	A, VA 22313-1404		ART UNIT	PAPER NUMBER
			3777	•
			NOTIFICATION DATE	DELIVERY MODE
			08/18/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com offserv@bipc.com

Office Action Summary

Application No.	Applicant(s)	
10/768,169	TREQUATTRINI	ET AL.
Examiner	Art Unit	
PETER LUONG	3777	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status	
1) 🖾	Responsive to communication(s) filed on <u>03 June 2011</u> .
2a) 🛛	'his action is FINAL. 2b) ☐ This action is non-final.
3)	lince this application is in condition for allowance except for formal matters, prosecution as to the merits is

Disposition of Claims

sposition of Claims
4) Claim(s) 1.2.10-22.24-30 and 32-151 is/are pending in the application.
4a) Of the above claim(s) 55-60.83-88 and 119-138 is/are withdrawn from consideration.
5) Claim(s) is/are allowed.
6) Claim(s) 1.2.10-22.24-30.32-54.61-82.89-118 and 139-151 is/are rejected.
7) Claim(s) is/are objected to.
8) Claim(s) are subject to restriction and/or election requirement.
plication Papers
9) ☐ The specification is objected to by the Examiner.

Ap

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	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.	
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
	Beplacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFB 1.121(d).	

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

a) All b) Some * c) None of:

1.□	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3.□	Copies of the certified copies of the priority documents have been received in this National Stage
	application from the International Bureau (PCT Bule 17.2(a))

* See the attached detailed Office action for a list of the certified copies not received.

Attac	hment(s)
1).	Notice of

1) Notice of Fisterences Cited (PTO-592)	4) Interview Summary (FTO-413)
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date
Information Disclosure Statement(s) (PTO/SB/08)	 Notice of Informal Patent Application
Paper No(s)/Mail Date	6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- Claims 1-2, 10-14, 17-19, 21, 33-37, 41-43, 61-66, 75-76, and 78 are rejected under 35 U.S.C. 103(a) as being unpatentable over Damadian et al. (US 6,414,490) in view of Eckels et al. (US 6,011,396).
- apparatus comprising a magnetic structure (9) having two opposite and spaced apart poles (12) and a column or wall transverse to the poles and connecting the poles (10); the poles define two opposite walls delimiting a patient-imaging space, the two opposite walls extending along substantially parallel planes which are substantially parallel to a vertical plane (Fig. 2); and a patient positioning table which is slidably connected to a supporting frame between the two poles (Fig. 4); the table being positioned with its longitudinal axis substantially parallel to the two opposite parallel walls of the poles and the table being oriented with its transverse axis substantially perpendicular to at least one of the two opposite walls (Fig. 3); the table being slidable with respect to the magnet in a direction parallel to a longitudinal axis of the table (Figs. 3 and 11); manual or automatic means being provided for displacing the table relative to the magnetic structure along the longitudinal axis (34); a lock for locking the table in a selected

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position relative to the magnetic structure (40); and manual or automatic means being provided for rotating the frame about the axis (40). Damadian et al. does not teach wherein the poles or the entire magnetic structure being rotatable together from a horizontal table position to a vertical table position. However, Eckels et al. teaches in an adjustable MRI imaging system wherein the magnet assembly can be rotated around the patient (Fig. 4). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the magnet to be rotatable around the patient as taught by Eckels et al. to allow for adjustable positioning of the magnet. Damadian et al. discloses the subject matter substantially as claimed except for the table supporting frame is supported by the magnetic structure. However, an integration of parts is well within the skill level of one of ordinary skill in the art (In re Larson, 340 F.2d 965, 968, 144 USPQ 347, 349 (CCPA 1965)). It is well known in magnetic resonance imaging for the table supporting frame and the magnetic structure to be connected. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have combined the table supporting frame and the magnetic structure. Damadian et al. does not teach wherein the axis of rotation coincides with the central axis of the poles, however, it would have been an obvious modification to align the rotational axis of the table and magnet with the poles as a rearrangement of parts is well within the skill level of one of ordinary skill in the art.

 Claims 15-16 and 38-40, 67-72, and 77 are rejected under 35 U.S.C. 103(a) as being unpatentable over Damadian et al. (US 6,414,490) in view of Eckels et al. (US Art Unit: 3777

6.934.574).

6,011,396).as applied to claim 1 above, and further in view of Damadian et al. (US 6,023,165).

- 5. Damadian et al. discloses the subject matter substantially as claimed except for rotating the table along its longitudinal axis. However, Damadian et al. ('165) teaches in an MRI apparatus which rotates the table horizontally and vertically and which rotates the table along its longitudinal axis (Fig. 16). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided Damadian et al. ('490) with the table rotatable along its longitudinal axis as taught by Damadian et al. ('165) in order to obtain images of the patient at different positions. Damadian et al. discloses the subject matter substantially as claimed except for a U-shaped frame. However, a change in shape is well within the skill level of one of ordinary skill in the art (In re Dailey, 357 F.2d 669, 149 USPQ 47 (CCPA 1966)). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the shape of the frame as a matter of design choice.
- 6. Claims 15-16 and 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Damadian et al. (US 6,414,490) in view of Eckels et al. (US 6,011,396) as applied to claim 14 above, and further in view of Damadian et al. (US
- 7. Damadian et al. discloses the subject matter substantially as claimed except for the angular positions of the table. However, Damadian et al. ('574) teaches a MRI scanner comprising a patient support (Fig. 3) capable of being adjusted to a number of

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angles and positions. Therefore, it would have been obvious to one of ordinary skill in the art to have modified the patient support structure of Damadian ('490) with the adjustable positions of Damadian ('574) in order to obtain images of the patient in multiple positions.

- Claims 20, 22, 24-30, 32, 44-54, 73-76, and 78-82 are rejected under 35
 U.S.C. 103(a) as being unpatentable over Damadian et al. (US 6,414,490) in view of Eckels et al. (US 6,011,396).as applied to claims 1 or 14 above, and further in view of Carter et al. (US 6,860,272).
- 9. Damadian et al. discloses the subject matter substantially as claimed except for a guiding means to slide the footrest or seat. However, Carter et al. teaches a means for sliding the footrest in an MRI apparatus (Fig. 3). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided the means for sliding the footrest as taught by Carter et al. in order to adjust the location of the footrest. With respect to the seat, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided the same means to allow adjustment of the seat.
- 10. Damadian et al. discloses the subject matter substantially as claimed except for a means for retaining the patient. However, Carter et al. teaches in an MRI apparatus means for retaining a patient including removable fastening belts (Fig. 3). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided the apparatus of Damadian with the patient retention means as taught by Carter et al. in order to keep the patient in place. With respect to the armpit

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support, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided an armpit support as an addition means of support for the arms as Damadian et al. teaches an arm support (48).

- 11. With respect to claims 32 and 54, Damadian et al. teaches the subject matter substantially as claimed except for a locking means for the patient retaining means, the footrest, and the seat. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided those parts with a locking mechanism in order to keep the positions of those parts in place to avoid patient movement during examination.
- 12. Claims 1-2, 10-22, 24-30, 32-54, 61-82, 89-118, and 139-151 are rejected under 35 U.S.C. 103(a) as being unpatentable over Damadian et al. (US 6,023,165, US 6,414,490, and US 6,934,574), Eckels et al. (US 6,011,396), and Carter et al. (US 6,860,272).
- 13. The combination of Damadian et al. ('165, '490, '574), Eckels et al., and Carter et al. discloses the subject matter of the system capable of performing the various positions of the patient and locking of the patient supports (see combinations above).
 Therefore, the subject mater of which inherently discloses the method steps as claimed.

Response to Arguments

Applicant's arguments filed 1/19/2010 have been fully considered but they are not persuasive.

Applicant argues that Damadian et al. does not teach wherein the table supporting frame is supported by the magnetic structure and that there is no teaching,

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suggestion, or motivation to combine the references, the examiner recognizes that obviousness may be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine. 837 F.2d 1071. 5 USPQ2d 1596 (Fed. Cir. 1988), In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992), and KSR International Co. v. Teleflex, Inc., 550 U.S. 398, 82 USPQ2d 1385 (2007). However, the Examiner respectfully disagrees with the applicant. In response to applicant's argument. In this case, as evidenced by the figures of known MRI systems as provided by the applicant (pages 62-66), several systems show the table supporting frame connected to the magnetic structure (e.g. Hitachi Vento, Toshiba, GE Briva, Philips, and Siemens Magentom). Particularly, the GE Briva and Siemens Magentom show the table extending out from the table supporting structure which is integrated with the magnetic structure. With respect to a particular KSR rationale for supporting an obviousness rejection, the Examiner notes that an integration and/or rearrangement of parts are supported under Rationale C: use of known techniques to improve similar devices in the same way (MPEP 2141 (III) (C)).

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the bed supported by the magnet) are not recited in the rejected claim(s).

Although the claims are interpreted in light of the specification, limitations from the

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specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPO2d 1057 (Fed. Cir. 1993).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PETER LUONG whose telephone number is (571)270-1609. The examiner can normally be reached on Monday - Friday, 7:00 a.m. - 4:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Chen can be reached on (571) 272-3672. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/P. L./

Examiner, Art Unit 3777

/Tse Chen/

Supervisory Patent Examiner, Art Unit 3777